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- Published:**  
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NOVEL DEVICE

(57) Abstract: A closure system for a pharmaceutical vial, comprising an elastomer closure part, a clamp part which holds the closure part in engagement with the mouth of the vial, and a cover part which engages with the clamp part. The interior of the closure part is profiled to minimise retention of residual liquid therein.

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/09151

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 B65D51/00 B65D23/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B65D A61J B01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages             | Relevant to claim No.         |
|------------|--|-------------------------------|
| X          | FR 2 516 480 A (MANUFACTURE LYONNAISE DE BOUCHAGE) 20 May 1983 (1983-05-20)                    | 1,3,5-7,<br>9,12,<br>14-18,20 |
| Y          | the whole document   | 4,8,19                        |
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| X          | page 6, line 7 -page 8, line 11; figures 1,2   | 15,16                         |
| Y          | US 2002/023409 A1 (PY)<br>28 February 2002 (2002-02-28)<br>cited in the application<br>claim 1 | 19                            |
|            | -/--   |                               |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

31 March 2004

Date of mailing of the international search report

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# INTERNATIONAL SEARCH REPORT

International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.         |
|------------|---|-------------------------------|
| X          | FR 2 598 137 A (ASTRA PLASTIQUE)<br>6 November 1987 (1987-11-06)<br><br>page 5, line 17 -page 9, line 11; figures 1-3<br><br>---    | 1,3,5-7,<br>9,12,<br>14-18    |
| X          | DE 12 28 028 B (THE WEST CY)<br>3 November 1966 (1966-11-03)<br><br>column 3, line 23 -column 5, line 38;<br>figures 1-7<br><br>--- | 1-3,5,7,<br>9,12,<br>14-17    |
| X          | US 5 718 348 A (MANERA)<br>17 February 1998 (1998-02-17)<br><br>the whole document<br><br>---                                       | 1-3,6,7,<br>9,10,12,<br>14-17 |
| X          | US 6 068 150 A (MITCHELL)<br>30 May 2000 (2000-05-30)<br>figures 6,7<br><br>---   | 15,16                         |
| X          | EP 0 564 037 A (STERLING WINTHROP)<br>6 October 1993 (1993-10-06)<br>figure 7<br><br>---  | 20                            |
| X          | DE 90 05 326 U (BIERWAS)<br>16 August 1990 (1990-08-16)<br>page 3, line 20 -page 6, line 19; figures 1,2<br><br>---                 | 23,24                         |
| X          | US 5 000 331 A (CONLON)<br>19 March 1991 (1991-03-19)<br>column 2, line 22 - line 25; figure 1<br><br>-----                         | 23,24                         |

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-22

1.1. Claims: 1-19

Closure system for a vial comprising a closure part, a clamping part and a cover part, a vial and a method of filling and closing a vial.

1.2. Claims: 20-22

A vial closure having a plug part.

2. Claims: 23,24

A stand for a vial.

Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP 03/09151

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/09151

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
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